

METHOD AND SYSTEM FOR MOBILITY
ACROSS HETEROGENEOUS ADDRESS SPACES

ABSTRACT

5 A mobile node includes a processor, a network interface, and a storage device having
computer program code for execution by the processor. The computer program code includes
a network layer for transmitting and receiving packets and an intermediate driver that
transmits packets to the network layer and receives packets from the network layer using a
virtual internet protocol (IP) address to identify the mobile node. The intermediate driver
transmits packets to the network interface and receives packets from the network interface
10 using a routable actual IP address to identify the mobile node. The intermediate driver
permits the actual IP address to change when the mobile node moves from a first subnet to a
second subnet without a corresponding change in the virtual IP address. A corresponding
NAT associates the virtual IP address with a second actual IP address when the NAT is
notified that the mobile node is in the second subnet.

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